CCE-EPT 2023

大陆地壳演化与早期板块构造

Continental Crust Evolution & Early Plate Tectonics

2023年国际学术研讨会

2023 International Symposium

会议资助单位/Sponsor：

国家自然科学基金委员会地球科学部

National Natural Science Foundation of China, Ministry of Earth Science

中国科学院国际合作局

Bureau of International Cooperation, Chinese Academy of Sciences

中国科学院地质与地球物理研究所

Institute of Geology and Geophysics, Chinese Academy of Sciences

岩石圈演化国家重点实验室

State Key Laboratory of Lithospheric Evolution

会议手册

Conference manual

会议承办单位：

中国科学院地质与地球物理研究所

中国地质调查局天津地质调查中心（华北地质科技创新中心）

中国石油天然气股份有限公司勘探开发研究院

中国地质学会前寒武地质专业委员会

Conference organizer:

Institute of Geology and Geophysics, Chinese Academy of Sciences

Tianjin Center, China Geological Survey (North China Center for Geoscience Innovation)

Research Institute of Petroleum Exploration & Development, PetroChina Company Limited

Committee of Precambrian Geology, Chinese Geological Society

会议主办单位：国家自然科学基金重大项目

“大陆地壳演化与早期板块构造”项目办

Host: The Major Program of National Natural Science Foundation of China

"Continental Crust Evolution and Early Plate Tectonics"

2023.10.10~15

北京/Beijing

目录

会议简介

为交流大陆地壳演化与早期板块构造领域所取得的最新进展，研讨存在的问题，推动相关学科的发展，国家自然科学基金重大项目“大陆地壳演化与早期板块构造（CCE-EPT）”项目办与中国地质学会前寒武地质专业委员会商定于 2023 年 10 月 10-15 日举办“大陆地壳演化与早期板块构造国际学术研讨会”。

一、会议主办、承办和协办单位

主办单位：国家自然科学基金重大项目“大陆地壳演化与早期板块构造”项目办

资助单位：国家自然科学基金委员会地球科学部、中国科学院国际合作局、中国科学院地质与地球物理研究所、岩石圈演化国家重点实验室

承办单位：中国科学院地质与地球物理研究所
中国地质调查局天津地质调查中心（华北地质科技创新中心）
中国石油天然气股份有限公司勘探开发研究院
中国地质学会前寒武地质专业委员会

协办单位：
岩石圈演化国家重点实验室
中国科学院矿产资源研究重点实验室
中国矿业联合会地质矿产勘查分会
西北大学地质学系
北京大学地球与空间科学学院
中国地质科学院地质研究所
中国科学院大学地球与行星科学学院
内蒙古自治区地质调查研究院
中国—巴西联合地学中心
中国地质大学（武汉）全球大地构造中心
大陆动力学国家重点实验室
中国冶金地质总局
西北大学前寒武纪地质研究中心
中山大学地球科学与工程学院
中国地质科学院地质力学研究所
山西省地质调查院有限公司
中国—朝鲜半岛联合研究中心
中国—斯里兰卡联合科教中心
中国科学院青年创新促进会地质地球所小组
中国科学院中国—斯里兰卡水技术研究与示范联合中心
深时数字地球(DDE)大科学计划变质岩工作组

二、指导委员会

主任：朱日祥
副主任：郑永飞 舒德干 杨树锋 邹才能 李献华
成员：曹明坚 柴育成 陈福坤 陈骏 陈衍景 陈意 陈拥军 储雪蕾 邓军 董云鹏 胡健民 高锐 耿元生 何宏平 侯泉林 惠鹤九 金巍 琚宜太 旷红伟 李爱民 李怀坤 李金华 李秋立 李旭平 李一良 李正祥 李忠海 林寿发 林伟 厉子龙 刘传周 刘敦一 刘建忠 刘良 刘树文 刘晓春 刘耘 柳永清 鲁安怀 陆松年 苗培森 彭松柏 裴军令 秦克章 任建国 沈冰 宋述光 舒良树 孙卫东 孙勇 唐铭 汤艳杰 仝来喜 万博 王汝成 王孝磊 王焰 王岳军 吴福元 吴元保 相振群 肖书海 肖益林 徐义刚 杨进辉 杨志明 杨振宇 姚玉鹏 于津海 于晟 曾庆栋 张波 张朝林 张传林 张成立 张进江 张健 张建新 张立飞 张连昌 张南 张培震 张少兵 张世红 张兴亮 张泽明 张志飞 赵凤清 赵军红 赵亮 赵太平 赵越 赵振华 郑建平 郑袁明 周建波 周传明 朱茂炎 朱祥坤

三、组织委员会

主席：翟明国
副主席：赵国春 郭敬辉 彭澎 王惠初 张水昌 Tim Kusky
成员：初航 第五春荣 董春艳 段站站 范宏瑞 郭红党 黄广宇 焦淑娟 李怀坤 李建荣 刘福来 刘平华 刘超辉 刘鹏 刘嘉惠 刘婷 刘博 卢俊生 龙晓平 齐雪宁 邱正杰 Ross Mitchell 施建荣 苏向东 万渝生 王舫 王军鹏 王璐 王长乐 王冲 王华健 王晓梅 王欣平 魏春景 吴春明 冶明泽 尹常青 赵磊 张贵宾 张拴宏 张艳斌 张家辉 周艳艳 周李岗 周川闽 钟焱 祝禧艳 邹屹

四、中心议题及议题召集人

议题一：早期大陆地壳生长与演化（赵国春、李献华、万渝生、龙晓平）
议题二：早期板块构造的变质-岩浆作用（郭敬辉、吴春明、魏春景、尹常青）
议题三：早期板块构造的浅层响应与资源-环境效应（彭澎、刘福来、王惠初、范宏瑞）
议题四：中-新元古代地球演化与矿产资源（张水昌、朱茂炎、李怀坤、张拴宏）
议题五：地球最古老岩石圈的形成、特征、历史和行为（Tim Kusky、彭澎、Ross Mitchell、Mark Harrison）

会议信息

一、会议时间

会议注册：2023 年 10 月 10 日（下午）-2023 年 10 月 11 日（全天）
室内学术会议：**2023 年 10 月 11 日-12 日**
野外考察：**2023 年 10 月 13 日-15 日**

二、会议地点

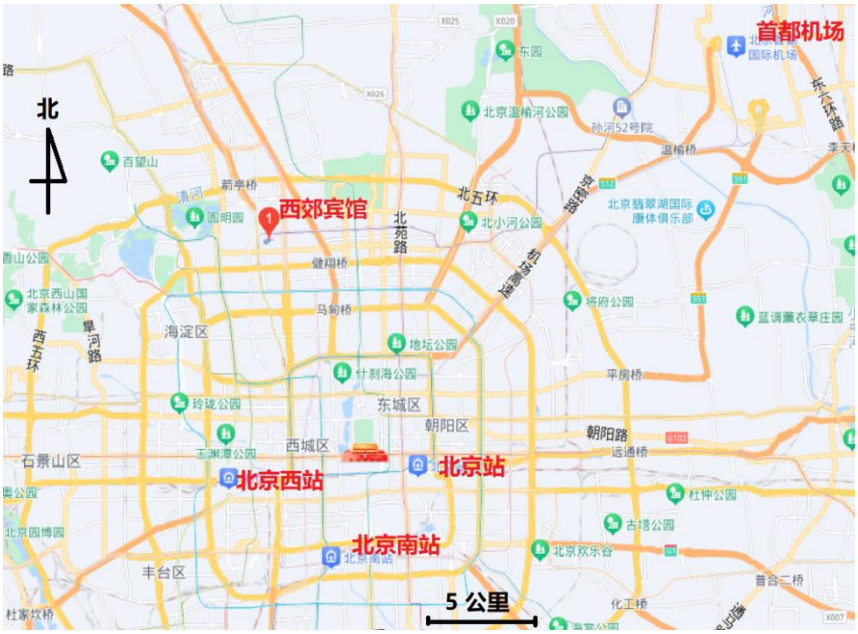

图 1 北京西郊宾馆交通位置图

室内会议地点为**北京西郊宾馆**。地址是北京市海淀区王庄路 18 号，紧邻轻轨 13 号线和 15 号线，交通出行便利。

图 2 北京西郊宾馆周边地铁图

图 3 北京西郊宾馆内部设施图

三、市内交通

1）**首都机场：**距离西郊宾馆约 30 公里。公共交通可搭乘首都机场线至三元桥站，换乘 10 号线至知春路站，换乘 13 号线至五道口站，出 A 口，步行 14 分钟（约 1 公里）即可到达；或者在塔台站搭乘空港 3 路公交车至地铁国展站，步行 5 分钟（约 370 米）至国展站换乘地铁 15 号线至清华东路西口站，出 C 口步行 13 分钟（约 900 米）即可到达。

2）**大兴机场：**距离西郊宾馆约 68 公里。公共交通可乘坐大兴机场线至草桥站，换乘 19 号线至牡丹园站，换乘 10 号线至知春路站，换乘 13 号线至五道口站，步行 13 分钟（约 920 米）即可到达

3）**北京南站：**距离西郊宾馆约 25 公里。公共交通可搭乘 4 号地铁线至西直门，换乘 13 号线至五道口站，出 B 口，步行 13 分钟（~920 米）即可到达。

4）**北京西站:**距离西郊宾馆约 15 公里。公共交通可搭乘 129 路公交车至东升园站，步行 23 分钟（约 1.6 公里）可到达西郊宾馆；或者搭乘地铁 9 号线至国家图书馆，换乘 4 号线至西直门站，然后换乘 13 号线至五道口站，出 B 口，步行 13 分钟（约 920 米）即可到达。

5) **北京站：**距离西郊宾馆约 20 公里。公共交通可乘坐 2 号地铁线至西直门站，换乘 13 号线至五道口站，出 B 口，步行 13 分钟（约 920 米）即可到达。

四、会议住宿

室内学术会议注册费为 1000 元（学生 500 元）；会后野外考察费用为 1800 元（住宿统一安排，费用自理）。

室内会议期间参会代表的交通费和住宿费自理。北京西郊宾馆室内会议期间大床房和标间协议价均为 540 元（含单早）或 600 元（含双早），行政房协议价为 650 元。西郊宾馆预留房间数量有限，将预留并优先提供给已提前注册的代表。

五、会议餐饮

室内会议期间参会代表的自助餐均在西郊宾馆 5 号楼。5 号楼有三个餐厅，赏园餐厅（二层），东园餐厅（一层），景园餐厅（一层），可容纳 400 人左右，三个餐厅的自助餐样式一致，三餐均为自助餐，请各位参会代表根据餐券时间自主选择合适的餐厅用餐，避免拥挤，祝用餐愉快！

Conference agenda 会议日程

Time	Theme	Location
Afternoon, 10 OCT	**Registration**	**Beijing Xijiao Hotel (北京西郊宾馆), first floor, Building 5**
Morning, 11 OCT	**Opening ceremony**	**Room 1: Yinxing Hall (银杏大厅), third floor, Building 1**
	Theme 1: Growth and Evolution of the Early Continental Crust	**Room 1: Yinxing Hall (银杏大厅), third floor, Building 1**
	Theme 2: Metamorphism and Magmatism of early Plate Tectonics	**Room 2: Number 5 meeting room (第五会议室), second floor, Building 1**
	Theme 4: Meso-Neoproterozoic Earth Evolution and Mineral Resources	**Room 4: Jinyuan Hall (金缘厅), second floor, Building 5**
	Theme 5: Formation, character, history and behavior of Earth's oldest lithospheres	**Room 3: Number 6 meeting room (第六会议室), second floor, Building 1**
Afternoon, 11 OCT	**Theme 1: Growth and Evolution of the Early Continental Crust**	**Room 1: Yinxing Hall (银杏大厅), third floor, Building 1**
	Theme 2: Metamorphism and Magmatism of early Plate Tectonics	**Room 2: Number 5 meeting room (第五会议室), second floor, Building 1**
	Theme 3: Earth system and resources relevant to the early plate tectonics (incl annual workshop of China-Brazil Joint Research Center)	**Room 3: Number 6 meeting room (第六会议室), second floor, Building 1**
	Theme 4: Meso-Neoproterozoic Earth Evolution and Mineral Resources	**Room 4: Jinyuan Hall (金缘厅), second floor, Building 5**
	Theme 5: Formation, character, history and behavior of Earth's oldest lithospheres	**Room 3: Number 6 meeting room (第六会议室), second floor, Building 1**

	Posters	**Room 1: Yinxing Hall (银杏大厅), third floor, Building 1**
Morning, 12 OCT	**Theme 1: Growth and Evolution of the Early Continental Crust**	**Room 1: Yinxing Hall (银杏大厅), third floor, Building 1**
	Theme 2: Metamorphism and Magmatism of early Plate Tectonics	**Room 2: Number 5 meeting room (第五会议室), second floor, Building 1**
	Theme 3: Earth system and resources relevant to the early plate tectonics (incl annual workshop of China-Brazil Joint Research Center)	**Room 3: Number 6 meeting room (第六会议室), second floor, Building 1**
	Theme 4: Meso-Neoproterozoic Earth Evolution and Mineral Resources	**Room 4: Jinyuan Hall (金缘厅), second floor, Building 5**
Afternoon, 12 OCT	**Theme 1: Growth and Evolution of the Early Continental Crust**	**Room 1: Yinxing Hall (银杏大厅), third floor, Building 1**
	Theme 2: Metamorphism and Magmatism of early Plate Tectonics	**Room 2: Number 5 meeting room (第五会议室), second floor, Building 1**
	Theme 3: Earth system and resources relevant to the early plate tectonics (incl annual workshop of China-Brazil Joint Research Center)	**Room 3: Number 6 meeting room (第六会议室), second floor, Building 1**
	Theme 4: Meso-Neoproterozoic Earth Evolution and Mineral Resources	**Room 4: Jinyuan Hall (金缘厅), second floor, Building 5**
	Posters	**Room 1: Yinxing Hall (银杏大厅), third floor, Building 1**
13-15, OCT	**Fieldtrips（Four different routes）**	

Wednesday, 11 OCT, AM　Opening ceremony and plenary presentations;　Room 1（Yinxing Hall 银杏大厅）

Time	Name	Institution	Title
Chairman	**Guochun Zhao (赵国春)**		
8:30-9:00	**Opening addresses**		
9:00-9:35	**Mingguo Zhai (翟明国)**	Institute of Geology and Geophysics, Chinese Academy of Sciences	**Plenary speech**
9:35-10:00	**Group Photo & Coffee Break**		

Wednesday, 11 OCT, AM　Theme 1: Growth and Evolution of the Early Continental Crust;　Room 1 (Yinxing Hall 银杏大厅)

Time	Name	Institution	Title
Chairman	**Guochun Zhao (赵国春)**		
10:00-10:25	**Simon A. Wilde**	**Curtin University**	**The growing evidence for plate tectonics in the Hadean: Separating fact from fiction (Keynote)**
10:25-10:50	**Yongfei Zheng (郑永飞)**	**University of Science and Technology of China**	**Archean plate tectonics: Interpretation and evidence (Keynote)**
10:50-11:05	Rongfeng Ge (葛荣峰)	Nanjing University	Magmatic oxygen fugacity and water content of Archean granitoids indicate subduction since the Eoarchean
11:05-11:20	Manoj K Pandit	University of Rajasthan	Precambrian Paleogeography and Assembly of the Indian Block
11:20-11:35	Peng Liu (刘鹏)	Institute of Geology and Geophysics, Chinese Academy of Sciences	High pressure TTGs can form at low pressure
11:35-11:50	Yang Yu (于洋)	Shandong University of Technology	Maturation and stabilization of Archean continental crust: insights from compositional evolution of granitoids in the eastern North China Craton

Wednesday, 11 OCT AM　Theme 2: Metamorphism and Magmatism of early Plate Tectonics; Room 2 (Number 5 meeting room 第五会议室)

Time	Name	Institution	Title
Chairman	**Krishnan Sajeev, M.A.S.P.K. Malaviarachchi**		
10:00-10:25	**Jinghui Guo (郭敬辉)**	**Institute of Geology and Geophysics, Chinese Academy of Sciences**	**Paleoproterozoic multiple HP/UHT metamorphism and related magmatism in the NW part of the North China Craton: tectono-thermal process of a prolonged subduction-collisional orogeny (Keynote)**
10:25-10:40	Bin Wang (王彬)	Peking University	UHT anatexis and genesis of charnockitic–garnetiferous granitoids in the Jining Complex, North China Craton
10:40-10:55	Shaoji Yang (杨绍极)*	China University of Geosciences (Wuhan)	Identification and time determination of ultrahigh-temperature metamorphism and anatexis in Kongling terrane: implications for Paleoproterozoic tectonic evolution
10:55-11:10	Xiaofang He (何小芳)	China University of Mining and Technology (Beijing)	HP-UHT Mesoarchaean metamorphism in the Coorg Block: thickened strong crust in the Mesoarchaean?
11:10-11:25	Meiyun Huang (黄媚韵)*	Institute of Geology and Geophysics, Chinese Academy of Sciences	Newly discovered Neoarchean ultrahigh-temperature metamorphism in the North Atlantic Craton reveals the growth of orogenic root in back-arc setting
11:25-11:50	**Shujuan Jiao (焦淑娟)**	**Institute of Geology and Geophysics, Chinese Academy of Sciences**	**Mechanisms to generate ultrahigh-temperature metamorphism (Keynote)**

Wednesday, 11 OCT AM Theme 4: Meso-Neoproterozoic Earth Evolution and Mineral Resources; Room 4 (Jinyuan Hall 金源厅)

Time	Name	Institution	Title
Chairman	**Maoyan Zhu (朱茂炎)**		
10:00-10:25	**Graham Shields**	**University College London**	**Tectono-magmatic drivers of Earth system evolution and the subdivision of geological time (Keynote)**
10:25-10:50	**Shihong Zhang (张世红)**	**China University of Geosciences (Beijing)**	**Reappraising the earth system in middle Proterozoic based on global paleogeographic changes (Keynote)**
10:50-11:05	Zongying Huang (黄宗莹)	Guangzhou Institute of Geochemistry, Chinese Academy of Sciences	The cause for Nuna breakup and its transition to Rodinia assembly
11:05-11:20	Qiang He (贺强)	University of Science and Technology of China	High-temperature low-pressure metamorphism of bimodal magmatic products in the Neoproterozoic continental rift along the northern margin of the South China Block
11:20-11:35	Xiaoguang Liu (刘晓光)	Ocean University of China	Tectono-sedimentary evolution of the Mesoproterozoic basins in the southern Yan-Liao and Mianchi-Queshan areas: Insights from stratigraphic pattern and detrital zircon geochronology

Wednesday, 11 OCT AM Theme 5: Formation, character, history and behavior of Earth's oldest lithospheres; Room 3 (Number 6 meeting room 第六会议室)

Time	Name	Institution	Title
Chairman	**Mark Harrison**		
10:00-10:05	Timothy Kusky	China University of Geoscience (Wuhan)	Introduction to Theme 5 session and new International Lithosphere Program task force on "Format ion, character, history and behavior of Earth's oldest lithospheres",
10:05-10:15	Mark Harrison	University of California	Burke'Law: Toward a Reasoned Discussion of Deep Time
10:15-10:20	Mark Harrison	University of California	Memorial of Prof. An Yin
10:20-10:45	**Jim Head (online)**	**Brown University, USA**	**Early Crust and Lithosphere Formation and Evolution: A Comparative Planetology Perspective (Keynote)**
10:45-11:10	**Mark Harrison**	**University of California**	**The Early Mafic Crust Paradigm: Have We Deluded Ourselves Again? (Keynote)**
11:10-11:25	Jun Korenaga (online)	Yale University, USA	Global constraints on global tectonics in the early Earth
11:25-11:50	**Walter Mooney**	**Geological Survey, United States**	**Geophysical Evidence for Crustal Evolution: Archean to Present (Keynote)**
11:50-12:15	**Timothy Kusky**	**China University of Geoscience (Wuhan)**	**New developments in understanding the Late Archean arc/continent collision of the Central Orogenic Belt, North China Craton (Keynote)**

Wednesday, 11 OCT, PM Theme 1: Growth and Evolution of the Early Continental Crust; Room 1 (Yinxing Hall 银杏大厅)

Time	Name	Institution	Title
Chairman	**Xianhua Li (李献华)**		
14:00-14:25	**Axel Hofmann**	**University of Johannesburg**	**Early crustal evolution of the Kaapvaal and Zimbabwe cratons – similarities and differences (Keynote)**
14:25-14:50	**Guochun Zhao (赵国春)**	**Hong Kong University / Northwest University**	**Archean geodynamics: A result of plate tectonics or some others? (Keynote)**
14:50-15:05	Wei Wang (王伟)	Institute of Geomechanics, Chinese Academy of Geological Sciences	A hidden Archean continent under the East Antarctica ice cap records the evolution of the early Earth
15:05-15:20	Jikai Ding (丁继凯)	China University of Geosciences (Beijing)	The Archean-Paleoproterozoic relative motion of the plates：constraints from paleomagnetic results
15:20-15:35	Zhengjiang Wang (汪正江)	Key Laboratory of Sedimentary Basin and Oil and Gas Resources, Ministry of Natural Resources /Chengdu Center, China Geological Survey	Tectono-depositional response to the Pan-African Orogeny on the northwestern margin of the Yangtze block during the transition from Neoproterozoic to Paleozoic
15:35-15:50	**Coffee/Tea break**		
Chairman	**Yusheng Wan (万渝生)**		
15:50-16:15	**Qing Zhang (张晴)**	**Institute of Geology and Geophysics Chinese Academy of Sciences**	**No evidence of supracrustal recycling in Si-O isotopes of Earth's oldest rocks 4 Ga ago (Keynote)**
16:15-16:40	**Shaobing Zhang (张少兵)**	**University of Science and Technology of China**	**Origin of early continental crust: constraints from whole-rock K and zircon O isotopes (Keynote)**
16:40-16:55	A. Pitawala	University of Peradeniya	Mineralogy, petrography, and geochemistry of carbonatite and phoscorite rocks in Sri Lanka
16:55-17:10	Zhao Yang (杨朝)*	China University of Geosciences (Wuhan)	Archean to Proterozoic magmatic-metamorphic histories of the Cuoke Complex and Dahongshan Group of SW Yangtze with implications to Proterozoic supercontinents
17:10-18:10	**Posters**		

Wednesday, 11 OCT, PM　Theme 2: Metamorphism and Magmatism of early Plate Tectonics; Room 2 (Number 5 meeting room 第五会议室)

Time	Name	Institution	Title
Chairman	**Lei Zhao (赵磊), Jinghui Guo (郭敬辉)**		
14:00-14:25	**Krishnan Sajeev**	**Indian Institute of Science**	**Sapphirine bearing rock: Are they all ultrahigh-temperature?**
14:25-14:40	Jonas Kämpf*	Curtin University	Metamorphism in the Archean Acasta Gneiss Complex: Constraints from phase equilibrium modelling and in situ garnet Lu–Hf geochronology
14:40-14:55	Soheila Saki	Kharazmi University	Petrology and tectonic setting of the Late Neoproterozoic-Early Cambrian granitoids in the Sanandaj-Sirjan Zone, Iran
14:55-15:10	Chuntao Liu (刘纯韬)*	Zhejiang University	Land exposure since the Early Archean revealed by a refined high temperature geochemical dataset
15:10-15:35	**M.A.S.P.K. Malaviarachchi**	**University of Peradeniya**	**Pre-Gondwanan Ancestry of the Vijayan Complex, Sri Lanka (Keynote)**
15:35-15:45	**Coffee/Tea break**		
Chairman	**Dan Wang (王丹), Bo Huang (黄波)**		
15:45-16:10	**Lei Zhao (赵磊)**	**Institute of Geology and Geophysics, Chinese Academy of Sciences**	**Phanerozoic exposure of an early Precambrian crustal profile along the Southern Jiaobei Massif of the North China Craton (Keynote)**
16:10-16:25	Jiahui Liu (刘嘉惠）	Institute of Geology and Geophysics, Chinese Academy of Sciences	Reconstructing gradients in chemical potentials for the textural evolution during gabbro-to-granulite transition
16:25-16:40	Yan Yang (杨岩)	Yunnan University	Evolution of Late Pan-African Granulite-Facies Metamorphism in Northeast China: The Evidence from Pelitic and Felsic Granulites from the Mashan Complex in Yilan, Heilongjiang Province
16:40-16:55	Zhenxin Li (李振新)	University of Science and Technology of China	Gradual speedup of plate tectonics constrained by detrital zircon records
16:55-17:10	Dongjian Ouyang (欧阳东剑)	Nanjing University	Low-$\delta^{18}O$ deep mantle reservoir reveals oceanic crust subduction before 3.3 billion years ago
	Posters, Room 1: Yinxing Hall (银杏大厅), third floor, Building 1		

Wednesday, 11 OCT PM Theme 3: Earth system and resources relevant to the early plate tectonics (incl annual workshop of China-Brazil Joint Research Center); Room 3 (Number 6 meeting room 第六会议室)

Time	Name	Institution	Title
Chairman	**Fulai Liu (刘福来), Farid Chemale Junior**		
15:15-15:40	**Farid Chemale Junior**	**Universidade do Vale do Rio dos Sinos**	**Nature and origin of Jacobina Au-(U) deposits, São Francisco Craton, Brazil (Keynote)**
15:40-16:05	**Xuyang Meng (孟旭阳)**	**China University of Geoscience (Beijing)**	**Controls on the rarity of porphyry Cu deposits in the Archean (Keynote)**
16:05-16:30	**Yanjing Chen (陈衍景)**	**Peking University**	**Paleoproterozoic mineral deposits associated with great oxidation event in North China Craton (Keynote)**
16:30-16:55	**Chaohui Liu (刘超辉)**	**Institute of Geology Chinese, Academy of Geosciences**	**Depositional age and tectonic setting of the Laoling Group in the northeastern North China Craton and their constraints on the initial enrichment of cobalt (Keynote)**
16:55-17:10	Zhengjie Qiu (邱正杰)	Institute of Geology and Geophysics, Chinese Academy of Sciences	Formation of epigenetic sediment-hosted Co deposits in the Trans-North China Orogen
17:10-17:25	Jianjiang Zhu (朱建江)	Institute of Geology, Chinese Academy of Geosciences	Genesis of Paleoproterozoic graphite deposit in the Jiao-Liao-Ji belt and its implications for the early environmental evolution of the Earth
17:25-17:50	**Hongrui Fan (范宏瑞)**	**Institute of Geology and Geophysics, Chinese Academy of Sciences**	**The giant Bayan Obo REE-Nb-Fe deposit (China): Intrusive style, three-dimensional morphology of carbonatite and REE probable resources (Keynote)**
	Posters, Room 1: Yinxing Hall (银杏大厅), third floor, Building 1		

Wednesday, 11 OCT PM　Theme 4: Meso-Neoproterozoic Earth Evolution and Mineral Resources; Room 4 (Jinyuan Hall 金源厅)

Time	Name	Institution	Title
Chairman	**Shuichang Zhang (张水昌)**		
14:00-14:25	**Shuanhong Zhang (张栓宏)**	**Institute of Geomechanics, Chinese Academy of Geoscience**	**From Yanliao mafic sill swarms in the North China Craton to 1.4-1.3 Ga large-scale continental rifting in the Columbia (Nuna) supercontinent (Keynote)**
14:25-14:40	Hongwei Kuang (旷红伟)	Institute of Geology, Chinese Academy of Geological Sciences	Discussion on the sedimentary environment of the Dagushi Formation of the Xiong'er Group in the southern North China Craton (NCC)
14:40-14:55	Haiyang Wang (王海洋)	Chengdu University of Technology	Sulfate triple-oxygen-isotope evidence confirming oceanic oxygenation 570 million years ago
14:55-15:10	Yuntao Ye (叶云涛)	Peking University	Phosphate oxygen isotopes and implications for the Mesoproterozoic environments
15:10-15:25	Yunpeng Sun (孙云鹏)*	Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences	Marine redox state during early Tonian: evidence from Huainan and Feishui groups of North China craton
15:25-15:40	**Coffee/Tea break**		
Chairman	**Shuanhong Zhang (张栓宏)**		
15:40-16:05	**Donald E. Canfield (online)**	**University of Southern Denmark**	**Environments not seawater concentrations controlled Late Proterozoic TM enrichments (Keynote)**
16:05-16:20	Huajian Wang (王华建)	Research Institute of Petroleum Exploration and Development	Driving mechanism behind the transition from iron-rich deposits to organic-rich deposits during the Mesoproterozoic Era
16:20-16:35	Lanyun Miao (苗兰云)	Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences	Multicellular eukaryotes from the late Paleoproterozoic Chuanlinggou Formation in North China and their evolutionary significance
16:35-16:50	Qing Ouyang (欧阳晴)	Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences	Microbial mat textures and associated microfossils from the early Mesoproterozoic Gaoyuzhuang Formation in North China
16:50-17:15	**Genming Luo (罗根明)**	**China University of Geosciences (Wuhan)**	**Evolution characteristics of the biota through the Meso-Neoproterozoic transition and the driven mechanism (Keynote)**
	Posters, Room 1: Yinxing Hall (银杏大厅), third floor, Building 1		

Wednesday, 11 OCT PM Theme 5: Formation, character, history and behavior of Earth's oldest lithospheres; Room 3 (Number 6 meeting room 第六会议室)

Time	Name	Institution	Title
Chairman	**Walter Mooney**		
14:00-14:15	Luc Doucet (online)	Curtin University, Australia	Lead isotope evolution during Earth's differentiation
14:15-14:40	**Lu Wang (王璐)**	**China University of Geosciences (Wuhan)**	**Evidence for deep subduction reveals modern-style plate tectonics operated in the late Archean (Keynote)**
14:40-15:05	**Celal Sengor (online)**	**Istanbul Technical University, Turkey**	**Crustal growth of the Altaids as a model for craton formation (Keynote)**
15:05-15:15	**Coffee/Tea break**		

Thursday, 12 OCT AM　Theme 1: Growth and Evolution of the Early Continental Crust;　Room 1 (Yinxing Hall 银杏大厅)

Time	Name	Institution	Title
Chairman	**Guochun Zhao (赵国春)**		
8:30-8:55	**Zhengxiang Li (李正祥)**	**Curtin University**	**What controlled the start of global plate tectonics on early Earth: spherical geodynamic modelling (Keynote)**
8:55-9:20	**Ali Polat**	**University of Windsor, Windsor, Canada**	**Archean TTGs and Continental Growth (Keynote, Online)**
9:20-9:35	Dr. P.L. Dharmapriya	Department of Geology, Faculty of Science, University of Peradeniya, Peradeniya, Sri Lanka	Tectonic Evolution of Charnockites along the inferred boundary of Highland and Wanni Complexes in North Eastern Sri Lanka
9:35-9:50	Yanyan Zhou (周艳艳)	Institute of Geology and Geophysics, Chinese Academy of Sciences	Low δ18O and δ30Si TTG at ca. 2.3 Ga hints at an intraplate rifting onset of the Paleoproterzoic supercontinent cycle
9:50-10:05	**Coffee/Tea break**		
Chairman	**Simon A. Wilde**		
10:05-10:20	**Yun Liu (刘耘)**	**Chengdu University of Technology**	**The conceptual model of the formation of Earth's habitability (Keynote)**
10:20-10:35	**Zhifei Zhang (张志飞)**	**Northwest University**	**New perspective on Cambrian Explosion: Construction of the First Animal Consumer-Driven Marine Ecosystem on Earth (Keynote)**
10:35-10:50	Hao Deng (邓浩)	China University of Geosciences (Wuhan)	Geological records of Neoarchean hot subduction in the North China Craton
10:50-11:05	Ruiying Li (李瑞瑛)	Institute of Geology and Geophysics, Chinese Academy of Sciences	Links between the Archean anoxic continental weathering and the Great Oxygenation Event
11:05-11:20	Shao Yilun (邵弋伦)	Jilin University	Tectonic implications of crystallographic vorticity axes (CVA) in minerals of lower crust anatexites

Thursday, 12 OCT AM　Theme 2: Metamorphism and Magmatism of early Plate Tectonics; Room 2 (Number 5 meeting room 第五会议室)

Time	Name	Institution	Title
Chairman	**Shuguang Song (宋述光), Shujuan Jiao (焦淑娟)**		
8:00-8:25	**Chunjing Wei (魏春景)**	**Peking University**	**Paleoproterozoic multi-phase metamorphism and tectonic evolution in the northern margin of the North China Craton (Keynote)**
8:25-8:40	Bo Huang (黄波)	China University of Geosciences (Wuhan)	The Neoarchean to Paleoproterozoic two-stage orogenesis and plate tectonic styles in the southern North China Craton
8:40-8:55	Dan Wang (王丹)	Institute of Geology, Chinese Academy of Geological Sciences	Exhumation of an Archean granulite terrane by Paleoproterozoic orogenesis
8:55-9:10	Kang Jiang (蒋康)*	China University of Geosciences (Wuhan)	Genesis and tectonic significance of Neoarchean epidosites in the Zanhuang Massif, North China Craton
9:10-9:25	Minjie Guo (郭敏洁)*	Sun Yat-Sen University	P-T-t Evolution and Tectonic Implications of Neoarchean Meta-mafic and Pelitic Rocks in the Qingyuan Area, North China Craton
9:25-9:40	Tianxiang Shi (史天项)*	Peking University	Two phase of granulite facies metamorphism during the Neoarchean and Paleoproterozoic and their geological implication in the Habuqin Iro Deposit, in the Yinshan Block, North China Craton
9:40-9:55	**Coffee/Tea break**		
Chairman	**Chunjing Wei (魏春景), Chunming Wu (吴春明)**		
9:55-10:20	**Shuguang Song (宋述光)**	**Peking University**	**Neoarchean Peridotites in the East Hebei of NCC: Example for modern-style plate subduction and collision (Keynote)**
10:20-10:35	Wenbing Ning (宁文彬)	China University of Geosciences (Wuhan)	Neoarchean SSZ and MOR ultra-/high-pressure ophiolitic mélanges of the Eastern Hebei Complex, North China Craton: Implications for Archean plate tectonics
10:35-10:50	Yi Zou (邹屹）	Institute of Geology and Geophysics, Chinese Academy of Sciences	A Metamorphic Exploration of Earth's Surface Evolution during the Mid-Proterozoic

10:50-11:05	Hui Zhang (张慧)	University of Chinese Academy of Sciences	Juxtaposition of different grade metamorphic rocks in an early Precambrian orogen: Evidence from the Chengde area of the North China Craton
11:05-11:30	**Fang Huang (黄方)**	**University of Science and Technology of China**	**Dominance of felsic continental crust on Earth after 3 billion years ago is recorded by vanadium isotopes (Keynote)**
11:30-11:45	**Allen Nutman (online)**	**University of Wollongong**	**Ultra-high-pressure to low-pressure (<250 to >1000°C/GPa) Eoarchean metamorphisms explained by lateral lithosphere movements (Keynote)**

Thursday, 12 OCT AM Theme 3: Earth system and resources relevant to the early plate tectonics (incl annual workshop of China-Brazil Joint Research Center); Room 3 (Number 6 meeting room 第六会议室)

Time	Name	Institution	Title
Chairman	**Peng Peng (彭澎), Ross Mitchell**		
8:30-8:55	**Hongping He (何宏平)**	**Guangzhou Insititute of Geochemistry, Chinese Academy of Sciences**	**The mineral-based oxygen: A critical constraint on life evolution by lithospheric changes (Keynote)**
8:55-9:20	**Genming Luo (罗根明)**	**China University of Geoscience (Wuhan)**	**Did the deep Earth processes delay the Great Oxidation Event? (Keynote)**
9:20-9:35	Ross Mitchell (米罗斯)	Institute of Geology and Geophysics, Chinese Academy of Sciences	The Balanced Billion: Rebranding the Extended Odd Mid-Proterozoic Interval of Earth History
9:35-9:50	Zhuyin Chu (储著银)	Institute of Geology and Geophysics, Chinese Academy of Sciences	Re-Os, Sr-Nd isotopic and PGE elemental constraints for the formation of mid-Proterozoic ironstones in North China Craton: implications for the atmospheric oxygen level
9:50-10:05	**Coffee/Tea break**		
Chairman	**Andrey Bekker, Yiliang Li (李一良)**		
10:05-10:30	**Andrey Bekker**	**University of California**	**Emergence of the aerobic atmosphere-ocean system: roles of life and Earth's interior (Keynote)**

10:30-10:55	**Yiliang Li (李一良)**	**Hong Kong University**	**Photoferrotrophic bacteria initiated global plate tectonics in the Neoarchean (Keynote)**
10:55-11:20	**Tim Johnson (online)**	**Curtin University**	**Giant impacts and the origin and evolution of continents? (Keynote)**
11:20-11:35	Si Sun (孙思)	China University of Geoscience (Wuhan)	Origin of the 3.46 Ga marble bar chert from Pilbara Craton, Western Australia
11:35-11:50	Zidong Peng (彭自栋)	Institute of Mineral Resources, Chinese Academy of Geological Sciences	Evidence for abundant organic matter in a Neoarchean banded iron formation
11:50-12:05	Renbiao Tao (陶仁彪)	Center for High Pressure Science and Technology Advanced Research	Metamorphic alteration on traces of early life in banded iron formations
12:05-12:20	Zhensheng Wang (王振胜)	China University of Geoscience (Wuhan)	Plate tectonics: The stabilizer of Earth's habitability

Thursday, 12 OCT AM Theme 4: Meso-Neoproterozoic Earth Evolution and Mineral Resources; Room 4 (Jinyuan Hall 金源厅)

Time	Name	Institution	Title
Chairman	**Huaikun Li (李怀坤)**		
8:30-8:55	**Chao Li (李超)**	**Chengdu University of Technology**	**Uncovering the Ediacaran Shuram excursion (Keynote)**
8:55-9:20	**Yongqing Liu (柳永清)**	**Institute of Geology, Chinese Academy of Geological Sciences**	**Ediacaran diamictites and glaciation in Northern China (Keynote)**
9:20-9:35	Xiaoshuai Chen (陈骁帅)	Institute of Geology, Chinese Academy of Geological Sciences	Sedimentary characteristics and spatial differential development of glacial in Sturtian Gucheng Formation, Yangtze Craton
9:35-9:50	Kun Zhao (赵坤)*	Chengdu University of Technology	An ice sheet advancing sequence at the beginning of the Cryogenian

9:50-10:05	Yuchong Wang (王玉冲)*	Institute of Geology, Chinese Academy of Geological Sciences	When and how did snowball earth begin? insights from the Shennongjia area
10:05-10:20	**Coffee/Tea break**		
Chairman	**Chao Li (李超)**		
10:20-10:45	**Yongbo Peng (彭永波)**	**Nanjing University**	**Critique and construction of carbonate associated sulfate (Keynote)**
10:45-11:00	Xinyang Chen (陈欣阳)	Chengdu University of Technology	Boron isotopes constrain ocean pH and atmospheric composition before the Great Oxygenation Event
11:00-11:15	Xiyan Zhu (祝禧艳)	Institute of Geology and Geophysics, Chinese Academy of Sciences	Genesis of iron formation in the Mesoproterozoic and its life- paleoenvironment significance
11:15-11:30	Jun Hu (胡军)	Ocean University of China	The depositional environment of iron formations (IFs) during the “Boring billion” period: A case study of Jiamiao and Shilu Ifs
11:30-11:45	Yafang Song (宋亚芳)	University of Science and Technology of China	Dynamic redox and nutrient cycling response to climate forcing in the Mesoproterozoic ocean

Thursday, 12 OCT PM Theme 1: Growth and Evolution of the Early Continental Crust; Room 1 (Yinxing Hall 银杏大厅)

Time	Name	Institution	Title
Chairman	**Yusheng Wan (万渝生)**		
14:00-14:25	**Jian Zhang (张健)**	**Hong Kong University**	**Polyphase deformation of the Central Limpopo Belt, southern Africa: recording a complex Neoarchean-Paleoproterozoic collisional history between the Kaapvaal and Zimbabwe Cratons (Keynote)**
14:25-14:50	**Neng Jiang (姜能)**	**Institute of Geology and Geophysics, Chinese Academy of Sciences**	**Granulite terrains and xenoliths: which are more representative of the lower continental crust? (Keynote)**
14:50-15:05	Kai Wang (王开)	Institute of Geomechanics, Chinese Academy of Geological Sciences	The Zhongxiang Complex and its constraints on early crustal evolution of the Yangtze Block
15:05-15:20	Ting Liu (刘婷)	Chengdu University of Technology	Metamorphic evolution and petrochronology of the UHT pelitic granulites from the East Hebei terrane, North China Craton
15:20-15:35	Yiwei Rong (荣艺伟)*	Nanjing University	Indication of Paleoproterozoic orogenic event by metamorphic supracrustal rocks of Beidashan complex in western Alxa
15:35-15:50	Xi Wang (王玺)	Ocean University of China	Growth of Late Archean continental crust in the North China Craton through abortive to successful subduction
15:50-16:00	**Coffee/Tea break**		
Chairman	**Guochun Zhao (赵国春)**		
16:00-16:25	**Yilong Li (李益龙)**	**China University of Geosciences (Wuhan)**	**A synthesis of >2.4 Ga mafic-ultramafic magmatism in the North China Craton: Implications for craton growth and early geodynamics (Keynote)**
16:25-16:50	**Wei Wang (王伟)**	**China University of Geosciences (Beijing)**	**Early Neoarchean alternation of plate subduction and deep mantle upwelling (Keynote)**
16:50-17:05	Guozheng Sun (孙国正)	Ocean University of China	Thermal state and evolving geodynamic regimes of the Meso- to Neoarchean North China Craton
17:05-17:20	Xiaodong Li (李晓东)*	Institute of Geology, Chinese Academy of Geological Sciences	New evidence for the late Neoarchean horizontal structure: A case study from the Taishan Group, Eastern North China Craton
	Posters, Room 1: Yinxing Hall (银杏大厅), third floor, Building 1		

Thursday, 12 OCT PM　　Theme 2: Metamorphism and Magmatism of early Plate Tectonics; Room 2 (Number 5 meeting room 第五会议室)

Time	Name	Institution	Title
Chairman	**Guibin Zhang (张贵宾), Lu Wang (王璐)**		
14:00-14:25	**Guangyu Huang (黄广宇)**	**Institute of Geology and Geophysics, Chinese Academy of Sciences**	**Partial melting mechanisms of peraluminous felsic magmatism in a collisional orogen (Keynote)**
14:25-14:40	Longlong Gou (苟龙龙)	Northwest University	Neoarchean granulite-facies metamorphism of the lower continental crust and characteristics of associated infiltrating fluids in the Southern granulite terrane, India
14:40-14:55	Qifeng Xie (谢其锋)	Fuzhou University	Paleoproterozoic magmatic activities and geological significance in the Shouning Country, Fujian Province, Southeast China
14:55-15:10	Forough Zolala	Shahrood University of Technology	Early Cambrian continental rift magmatism in the central part of Iran
15:10-15:35	**Mahmoud Sadeghian**	**Shahrood University of Technology**	**A general review of the Precambrian-Cambrian magmatism and metamorphism of Iran (Keynote)**
15:35-15:45	**Coffee/Tea break**		
Chairman	**Guangyu Huang (黄广宇)，Mahmoud Sadeghian**		
15:45-16:10	**Guibin Zhang (张贵宾)**	**Peking University**	**Omphacite melting and the destruction of early high-pressure rock records (Keynote)**
16:10-16:25	Botao Li (李波涛)	China University of Geosciences (Wuhan)	Contact metamorphism in metasediments caused by late-stage magmatism in the Pohorje Mountains of the Eastern Alps
16:25-16:40	Xiaoli Li (李小犁)	Peking University	Two types of Paleoproterozoic eclogites in Belomorian Province, Russia
16:40-16:55	Dingding Zhang (张丁丁)	Institute of Geology, China Earthquake Administration	Metamorphism of HP-UHT granulite from Chicheng, northern Trans-North China Orogen and its implication for plate tectonics
16:55-17:20	**Chang Whan Oh**	**Jeonbuk National University**	**The Tectonic Evolution from Archean to Triassic in Hongcheon Area, the Northern Gyeonggi Massif in the Korean Peninsula, and Its Application to the Tectonic Evolution of North China Craton (Keynote)**
	Posters, Room 1: Yinxing Hall (银杏大厅), third floor, Building 1		

Thursday, 12 OCT PM Theme 3: Earth system and resources relevant to the early plate tectonics (incl annual workshop of China-Brazil Joint Research Center); Room 3 (Number 6 meeting room 第六会议室)

Time	Name	Institution	Title
Chairman	**Richard Ernst, Yanyan Zhou (周艳艳)**		
14:00-14:25	**Hafida El Bilali**	**Carleton University**	**The Alta Regio superplume event, Venus (Keynote)**
14:25-14:50	**Richard Ernst**	**Carleton University**	**The status of the Archean LIP record (Keynote)**
14:50-15:05	Peng Peng (彭澎)	Institute of Geology and Geophysics, Chinese Academy of Sciences	Plume activity during the formation of the first supercontinent (Columbia)
15:05-15:20	Huiru Xu (徐慧茹)	China University of Geoscience (Wuhan)	Reconstructing the paleo-position of the North China Craton within the supercontinent Columbia: constraints from paleomagnetic and magnetic fabric results
15:20-15:35	Jianfeng Ma (马建锋) *	Guangzhou Institute of Geochemistry, Chinese Academy of Sciences	Tracking Crystal-Melt Segregation and Accumulation in the Intermediate Magma Reservoir
15:35-15:50	Fengbo Sun (孙风波)	Henan Polytechnic University	Comparing the Precambrian geology of North China Craton and Sao Francisco Craton: a Proterozoic connection hypothesis
15:50-16:15	**Xixi Zhao(赵西西)**	**Southern University of Science and Technology**	**Paleogeography of Rodinia in the Neoproterozoic: Constraints From Paleomagnetic Results of Coeval 925 Ma Dykes in Both North China Craton and São Francisco Craton, Brazil (Keynote)**
16:15-16:30	Chong Wang (王冲)	Institute of Geology and Geophysics, Chinese Academy of Sciences	Progress in Precambrian paleomagnetism on the North China craton and constraints on supercontinent reconstruction
16:30-16:45	**Coffee/Tea break**		
Chairman	**Huichu Wang (王惠初), Chang-Whan Oh**		
16:45-17:10	**Luiz Cesar Correa-Gomes**	**Federal University of Bahia State**	**Geophysical methods reveal the deep crustal structure of an indentation zone between the Pernambuco-Alagoas block and the São Francisco-Congo craton, in NE Brazil (Keynote)**

17:10-17:35	**Marco Antonio Caçador Martins Ferreira**	**Universidade de Brasília**	**Multi-stage crustal accretion by magmatic flare-up and quiescence intervals in the western margin of the São Francisco Craton, Central Brazil (Keynote)**
17:35-17:50	Huichu Wang (王惠初)	Tianjin Center, China Geological Survey (North China Center for Geoscience Innovation)	The Structure and evolution of Paleoproterozoic orogenic belt in the north-central North China Craton
17:50-18:05	Girelli Tiago Jonatan	Universidade do Vale do Rio dos Sinos	New insights of the Rio de la Plata Craton based on geochronology and geophysics
	Posters, Room 1: Yinxing Hall (银杏大厅), third floor, Building 1		

Thursday, 12 OCT PM Theme 4: Meso-Neoproterozoic Earth Evolution and Mineral Resources; Room 4 (Jinyuan Hall 金源厅)

Time	Name	Institution	Title
Chairman	**Shihong Zhang (张世红)**		
14:00-14:25	**Baojin Zhao (赵宝金)**	**University of South Africa/Southwest Petroleum University**	**The evolution and mineral deposits in the Proterozoic basins, South Africa (Keynote)**
14:25-14:50	**Xiaomei Wang (王晓梅)**	**Research Institute of Petroleum Exploration and Development**	**The Mesoproterozoic nitrogen cycle and organic matter enrichment (Keynote)**
14:50-15:05	B. Balasooriya	University of Peradeniya	Influence of Hydrothermal Fluid on Wall Rock Alteration and Formation of Graphite Morphologies of Vein Graphite Deposits at Kahatagaha – Kolongaha, Sri Lanka
15:05-15:20	Chuan Yang (杨传)	Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences	High precision geochronology of the Ediacaran-Cambrian transition
15:20-15:35	Lianjun Feng (冯连君)	Institute of Geology and Geophysics, Chinese Academy of Sciences	Anomalous iron isotopes of a cold snowball Earth
15:35-15:50	**Coffee/Tea break**		

Chairman	**Yongbo Peng (彭永波)**		
15:50-16:05	Liangxuan Jiao (焦良轩)	Chengdu University of Technology	Ediacaran Phosphogenesis Event in South China
16:05-16:20	Haoran Ma (马浩然)	Nanjing University	The triple oxygen isotope composition of Mesoproterozoic seawater
16:20-16:35	Mingze Ye (冶明泽)*	Research Institute of Petroleum Exploration and Development	Spatial and temporal redox heterogeneity controlled by a Fe(II), anoxic upwelling system in the early Mesoproterozoic ocean
16:35-16:50	Feng Liu (刘峰)*	China University of Geosciences (Wuhan)	Tectonic evolution of the Neo-Tethys from Late Jurassic to Early Cretaceous: insights from ~142-134 Ma OIB-like magmatism in the western Indus–Tsangpo suture zone, southwest Tibet
	Posters, Room 1: Yinxing Hall (银杏大厅), third floor, Building 1		
Note: Names with * are graduate students			

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Wenbin Ning/宁文彬，15827469095（Theme 5/议题五）

Posters 展板

Theme 1: Growth and Evolution of the Early Continental Crust

	Name	Institution	Title
1	Xiaolei Wang (王孝磊)	Nanjing University	Formation of TTGs in the Barberton area, South Africa
2	Ning Ding (丁宁)	Nanjing University	Compositional diversity of TTGs controlled by heterogeneous accumulation of accessory minerals
3	Xiaozhuang Cui (崔晓庄)	Chengdu Center, China Geological Survey	The Archean-Paleoproterozoic Cuoke Complex: Records of early evolution of the Yangtze Craton
4	Houxiang Shan (单厚香)	Institute of Geology, China Earthquake Administration	Evolution of the Neoarchean granitoid magmatism in the eastern NCC: Implications for the transition of geodynamic regime
5	Hao Wang (王浩)	Institute of Geology and Geophysics Chinese Academy of Sciences	Growth, reworking and emergence of continental crust of the Kaapvaal Craton during Paleoarchean
6	Chen Zhao (赵辰)	Shenyang Center, China Geological Survey	Structural pattern and geodynamic process of the Taipingzhai high-grade domain: implications on the Neoarchean tectonic regime of the North China Craton
7	Yilun Shao (邵弋伦)	Jilin University	Tectonic implications of crystallographic vorticity axes (CVA) in minerals of lower crust anatexites
8	Ying Chen (陈莹)	Sun Yat-Sen University	Identification of Neoarchean TTG Parental Magma in the North China Craton and its Nd Isotopic Characteristics
9	Ruiying Zhang (张瑞英)	Northwest University	Petrogenesis of two episodes of Neoarchean TTG gneisses from the Zhongtiao Mountains, North China Craton: Implications for crustal evolution
10	Jingyu Wang (王敬宇)	Northwest University	Early Paleoproterozoic TTG gneisses and potassic granitoids in the southern Trans-North China Orogen: A key to constrain the tectonic setting during the Tectono-Magmatic Lull and the initiation of plate tectonics）
11	Zhiyi Wang (王智毅) *	University of Science and Technology of China	Two stages of late Paleoproterozoic A-type granites in the southern North China craton: geochemical constraints and implications for supercontinent breakup

12	Yufei Cao (曹雨霏)*	University of Science and Technology of China	The origin of 2.6 Ga orbicular diorite in the Western Shandong Province, North China Craton
13	Shuhui Zhang (张书慧)	Sun Yat-Sen University	Polyphase deformation of the Qixingtai region of western Shandong: implications for the tectonic environment of the Neoarchean North China Craton
14	Bowen Si (司博闻)	Northwest University	Eoarchean-Paleoarchean crustal material in the southern North China Craton and possible mantle reservoir of early Earth
15	Mengxia Mao (毛梦霞)*	Institute of Geology and Geophysics Chinese Academy of Sciences	Petrogenesis of 2.7-2.65 Ga TTGs in the Wutai complex: Constraints on the Neoarchean crustal evolution of the North China Craton
16	Changqing Zheng (郑常青)	Jilin University	Evolution of Late Pan-African Granulite-Facies Metamorphism in Northeast China: The Evidence from Pelitic and Felsic Granulites from the Mashan Complex in Yilan, Heilongjiang Province
17	Yan Zhao（赵燕）	Northwest University	Paleo-Mesoarchean crustal evolution in the Western Dharwar Craton, southwestern India
18	Yuanfang Zhao (赵远方)	Institute of Geomechanics, Chinese Academy of Geoscience	The uplift of Fuping Complex and its implications for the late Paleoproterozoic evolution of the North China Craton
19	Changquan Cheng (程昌泉)*	Sun Yat-Sen University	A tectonic regime dominated by coexisting mantle plume and subduction during the Neoarchean North China Craton: insights from the mafic rocks of the northeastern Longgang Block
20	Jiawei Zuo (左嘉伟)	The University of Hong Kong	Early Earth Tectonic Models: Tests and (Non-)uniqueness
21	Hao Deng (邓浩)	China University of Geoscience (Wuhan)	Ca-isotopes of Archean anorthosites reveal recycled carbonates in oceanic island arcs
22	Zhenxin Li (李振新)	University of Science and Technology of China	No global plate tectonics during the Archean
23	Qiqi Zhang (张琪琪)	Institute of Geomechanics, Chinese Academy of Geological Sciences	Identification of Eoarchean granitic orthogneisses in the northern Napier Complex, East Antarctica
24	Yu Yuan (袁禹)*	China University of Geosciences (Wuhan)	Stabilized Earth’s cratons through episodic, felsic magmatism during Paleoarchean
25	Yang Tian (田洋)	Wuhan Center of Geological Survey, China Geological Survey	Neoarchean granitic rocks from the Jiamiao area of the Dabie orogen: Implications on the formation and early evolution of the Yangtze Craton

Theme 2: Metamorphism and Magmatism of early Plate Tectonics

	Name	Institution	Title
26	Lei Gao (高磊)	China University of Geosciences (Beijing)	Two styles of Neoarchean slab subduction revealed by mantle oxygen fugacity
27	Chunming Wu (吴春明)	University of Chinese Academy of Sciences	Delineation of the Neoproterozoic Kang-Dian Orogenic Belt (SW China): insights from P-T conditions, timing and duration of metamorphism
28	Zuolin Tian (田作林)	Institute of Geology, Chinese Academy of Geological Sciences	Calculation of effective bulk composition and its application in metamorphic phase equilibira modeling
29	Chao Wang (王潮)	Hongkong University	Late Paleoproterozoic magmatism in North Hengshan: Final collapse of the Trans-North China Orogen
30	Bin Wu (吴宾)	Northwest University	Early Paleoproterozoic tectonic evolution of the Yinshan Block in the North China Craton: Constraints from the geochronology and geochemistry of basic to felsic magmatic rocks in the Guyang area
31	Cui Liu (刘翠)	China University of Geosciences (Beijing)	The high magnesian andesites in the Neoarchean Wutai Greenstone Belt and significances for plate tectonics
32	Yanping Chen (陈燕平)*	Shandong University of Science and Technology	U-Pb dating and REE characteristics of zircon, apatite and titanite in the late Archean granitoids of the Jiaobei terrane, North China Craton
33	Gaoxue Yang (杨高学)	Chang'an University	Geologic Records of Subduction Initiation
34	Jiahui Qian (钱加慧)	Sun Yat-Sen University	Progressive metamorphism in the Lüliang Group, central Trans-North China Orogen: Phase equilibria modelling and tectonic mechanism
35	Lingjian Gao (高令健)*	Jilin University	Crustal mercury addition into the giant Jinchuan Ni-Cu sulfide deposit, China, and its geological implications
36	Yang Qi (齐扬)*	Institute of Geology and Geophysics, Chinese Academy of Sciences	The duration of UHT metamorphism in eastern Khondalite Belt, North China Craton: implication for the genesis of UHT metamorphism
37	Shude Liu (刘述德)	China University of Geosciences (Wuhan)	Discovery of ~2.5Ga high-K granites in southern margin of the Dabie Orogen and its implications

Theme 3: Earth system and resources relevant to the early plate tectonics (incl annual workshop of China-Brazil Joint Research Center)

	Name	Institution	Title
38	Wangbin Gong (公王斌)	Institute of Geomechanics,Chinese Academy of Geological Sciences	Late Paleoproterozoic extension of the Trans-North China Orogen: Evidence from kinematic and geochronologic analysis of the Pingshan ductile shear zone
39	Xinping Wang (王欣平)	Shanxi Normal University	The early Paleoproterozoic (2.3 Ga) granite magmatism in Zhongtiao area and their implications for geologic evolution of the North China Craton
40	Peng Peng (彭澎)	Institute of Geology and Geophysics Chinese Academy of Sciences	Frequent Large Igneous Provinces sustained Great Oxidation event: Records from North China craton?
41	Xinping Wang (王欣平)	Shanxi Normal University	Magmatic evolution at two different crustal levels: implications from the Paleoproterozoic (2.1 Ga) Wutai mafic intrusive complex in North China Craton.
42	Caiyun Lan (兰彩云）	Northwest University	Redox-stratified seawater during the GOE: Evidences from rare earth elemental and C-O isotopic compositions of Paleoproterozoic BIF and carbonate rocks from the Taihua Group, North China Craton
43	Shuqi Liu (刘书琪)*	China University of Geosciences (Beijing)	The depositional time, genesis and environmental significance of Mesoproterozoic Chuanlinggou Formation black shales in North China
44	Xixi Zhao (赵西西)	Southern University of Science and Technology	Paleogeography of Rodinia in the Neoproterozoic: Constraints From Paleomagnetic Results of Coeval 925 Ma Dykes in Both North China Craton and São Francisco Craton, Brazil
45	Xiangdong Su (苏向东)	Zhengzhou University	Comparison of the Early Neoproterozoic Magmatism (~930-890 Ma) between the North China and São Francisco cratons
46	Peng Peng (彭澎)	Institute of Geology and Geophysics Chinese Academy of Sciences	Persperctives on joint geoscientific researches on São Francisco and North China cratons
47	Amuwela Appuhamilage Jagath Kinsly Gunatilake	University of Peradeniya	Investigation of thermal springs in a Precambrian crystalline terrain: a case study of Kapurella hot water spring in Sri Lanka

Theme 4: Meso-Neoproterozoic Earth Evolution and Mineral Resources

	Name	Institution	Title
48	Meng Cheng (程猛)	Chengdu University of Technology	A weak methane barrier in the early Cambrian ocean
49	Guimei Lu (卢桂梅)	Guangzhou Institute of Geochemistry, Chinese Academy of Sciences	Contrasting Topography Of Rodinia And Gondwana Recorded By Continental-arc Basalts
50	Yuqi Liang (梁钰琦)	China University of Geosciences (Wuhan)	Evolution Model of Graphite Deposits in the Northwestern of North China Craton
51	Hanqing Zhao (赵汉卿)	China University of Geosciences (Beijing)	New paleomagnetic results from the Zhaowei and Niyuan formations of the Huaibei Group, North China craton, and their paleogeographic implications
52	Yixuan Liu (刘伊暄)*	China University of Geosciences (Beijing)	New paleomagnetic results from the late Mesoproterozoic Luanshigou Formation, Shennongjia Group in south China and their implications for the Pre-Grenvillian connections between south China blocks and southwestern Laurentia
53	Qianqian Li (李倩倩)*	Henan Polytechnic University	Characteristics of Stromatolites and Its Significance in Depositional Environment Reconstruction of the Mesoproterozoic Longjiayuan Formation (2nd Member) Western Henan
54	Kai Chen (陈凯)	Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences	Carbonaceous Macrofossils from the Mesoproterozoic Gaoyuzhuang Formation and Their New Age Constraints
55	Jin Luo (罗瑾)*	Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences	High resolution carbon-strontium isotopic chemostratigraphy on the Gaoyuzhuang Formation, North China Craton
56	Minghao Wu (吴明昊)	Research Institute of Petroleum Exploration and Development	From cyanobacteria to kerogen: An ignored model of organic carbon burial
57	Chaokun Zhang (张朝鲲)*	Peking University	Environmental effects of volcanic activity revealed by siderite in Xiamaling Formation, North China Craton

58	Zhang Yan (张妍)*	China University of Petroleum (East China)	Study on the Paleomarine environment and climate change in the Mesoproterozoic Yangzhuang formation in Jixian,Tianjin
59	Qing Ma (马晴)	China University of Petroleum (East China)	Eukaryotic evolution lag caused by oligotrophic and ferruginous anoxic seawater during the Statherian
60	Chaoyuan Jia (贾朝媛)*	Institute of Geology and Geophysics, Chinese Academy of Sciences	Baddeleyite U-Pb chronology and geological significance of early-Mesoproterozoic diabase dyke in Shennongjia area
61	Bingshuang Zhao (赵冰爽)	Northwest University	Early Cambrian sedimentary rocks in South China: a link between oceanic oxygenation and biological explosion
62	Wei Jin (金巍)	Wuhan Center of Geological Survey, China Geological Survey	Mid-Mesoproterozoic (~1.37 Ga) anorogenic magmatism in the Northern Yangtze Craton: response to the break-up of Columbia
63	Xiuwei Jiang (蒋修未)*	Northwest University	Petrogenesis of Neoproterozoic high-K intrusion in the southwestern Yangtze Block, South China: Implication for the recycled subducted-sediment in the mantle source
64	Tao Zhong (钟涛）	China University of Geosciences (Beijing)	Deciphering the Ediacaran geomagnetic field with high-resolution records from sourth China
65	Wenbin Xue (薛文斌)*	Northwest University	Late Mesoproterozoic gabbros in the western Yangtze Block, South China: Petrogenesis and geological implications for the intra-plate rift setting
Note: Names with * are graduate students			

会后野外

1、议题一路线：冀东最古老岩石、太古宙-古元古代变质作用与构造演化

野外领队：魏春景、万渝生

路线助理：宋述光、段站站、刘婷、初航

日程安排：

10 月 13 日：上午 9:30 从北京西郊宾馆出发，到迁西，在迁西办理入住，吃午饭；下午考察太平寨太古代 TTG 片麻岩、基性麻粒岩，老李家泥质麻粒岩；麻大峪基性岩墙；渔户寨紫苏花岗岩。夜宿迁西。

10 月 14 日：上午考察东湾子-上营乡一带的变质基性-超基性岩；下午考察小官庄基性麻粒岩、石门岩墙、龙湾超基性岩，三屯营 TTG 片麻岩。夜宿迁西。

10 月 15 日：上午或考察迁安穹窿西缘娄子山麻粒岩和变质超基性岩、或羊崖山麻粒岩与曹庄杂岩（TTG、表壳岩），或卢龙表壳岩。下午返回北京。

联系人：邹屹，17600849943；申梦梦，15313928316

2、议题二路线：怀安-集宁-呼和浩特高压麻粒岩和超高温麻粒岩

野外领队：郭敬辉、焦淑娟、黄广宇、张家辉、施建荣

路线助理：刘嘉惠、齐扬、毛梦霞、黄媚韵

日程安排：

10 月 13 日：上午 8:00 从北京西郊宾馆出发，沿途考察天镇西赵家窑地区 1.91 Ga 的高压基性麻粒岩，及其伴生的大理岩、泥质麻粒岩等。夜宿乌兰察布市。

10 月 14 日：乌兰察布市出发前往土贵乌拉，考察万城沟孔兹岩沉积层序剖面，天皮山超高温麻粒岩露头（1.92 Ga），下午前往凉城考察鞍子山瓷白色花岗岩（1.95 Ga）及蛮汉山紫苏花岗岩（1.93 Ga）。夜宿呼和浩特市。

10 月 15 日：呼和浩特出发前往武川-考察东坡超高温麻粒岩（1.91-1.85 Ga），返回北京。

联系人：黄广宇，18600849277；毛梦霞，18810238223

3、议题三路线：五台地区大氧化事件前后的岩浆-沉积记录

野外领队：彭澎、李建荣、王惠初、苗培森

路线助理：王欣平、李冰荷、徐毕升、苏向东、商光锐

日程安排：

10 月 13 日：上午 8:30 从西郊宾馆出发，北京-五台县，夜宿五台县。

点 1-塔坪村，五台群柏枝岩组枕状熔岩及变火山沉积岩系（含 BIF）；点 2-康家沟村，五台群柏枝岩组条带状铁建造及铁矿。

10 月 14 日：忻州-朔州一带考察；夜宿五台县。

点 3-殷家会，远眺高凡群与五台群不整合界面；点 4-高凡村七棵树，高凡群张仙堡组上部-磨河组下部九层凝灰岩及一层火山岩剖面；点 5-高凡村，高凡群磨河组与滹沱群四集庄组不整合；点 6-马桥村，滹沱群四集庄组砾岩；点 7（备选）-龙巴村，滹沱群四集庄组 21.5 亿年火山岩砾石；点 8（备选）-马头口村，滹沱群青石村组～21 亿年火山岩及地层剖面；点 9-回龙底村，滹沱群河边村组叠层石白云岩；点 10-红石头村，滹沱群大关山组-槐荫村组白云岩地层剖面及（远眺）中元古界。

10 月 15 日：忻州一带考察；预计 19:30 前返回北京西郊宾馆。

点 11-石咀村，27 亿年灰色片麻岩(TTG)；点 12-边家湾村，17.3 亿年北台岩墙。

(注：考察费用为 1800 元/不含住宿，或者 2300 元/含单间住宿)

联系人：彭澎，13671287251；李冰荷，18965376588

4、议题四路线：天津蓟县中-新元古界剖面

野外领队：张水昌、李怀坤、王晓梅、张拴宏

路线助理：王华健、周川闽、冶明泽、齐雪宁

日程安排：

10 月 13 日：上午 9:00 从北京西郊宾馆出发，至天津市蓟州区，从老至新依次考察太古宇基岩（变质岩），以及中元古界长城系（1.8-1.6 Ga）的常州沟组（河流-浅海碎屑岩）、串岭沟组（浅海碎屑岩）、团山子组（浅海碳酸盐岩）和大红峪组（浅海碎屑岩夹火山岩）。夜宿蓟州。

10 月 14 日：考察中元古界蓟县系（1.6-1.4 Ga）的高于庄组（浅海碳酸盐岩）、杨庄组（浅海碳酸盐岩）、雾迷山组（浅海碳酸盐岩）、洪水庄组（浅海碎屑岩）和铁岭组（浅海混积的碳酸盐岩-碎屑岩），以及待建系（1.4-1.0 Ga）下马岭组（浅海碎屑岩）。夜宿蓟州。

10 月 15 日：考察上元古界青白口系（1.0-0.8 Ga）的骆驼岭组（浅海碎屑岩）和景儿峪组（浅海混积的碳酸盐岩-碎屑岩），以及盖层下寒武统府君山组（浅海碳酸盐岩）。考察结束后返回北京。

联系人：田连杰，15670888834；张儒诚，17812085517

Field trips

Route 1: Early continental crust records and Neoarchean metamorphic rock series in Eastern Hebei.

Field leader: Chunjing Wei, Yusheng Wan

Key contact: Yi Zou, (+86) 17600849943; Mengmeng Shen, (+86) 15313928316

Schedule:

October 13: **Leave for field at 9.30 am from the hotel**. Explore the Archaean TTG gneiss, mafic granulite and argillaceous granulite of Laolijia in Taipingzhai. Madayu mafic dykes; Yuhuzhai Charnockite.

October 14: the Dongwanzi ophiolite, Shangying melange and eclogite facies metamorphic rocks, Xiaoguanzhuang mafic granulite, Shimen dykes, Longwan ultra-mafic rocks and TTG gneiss in Santunying.

October 15: Louzishan granulite and metamorphic ultramafic rock, Yangyashan granulite and Caozhuang complex (TTG, supracrustal rocks), or Lulong supracrustal rocks in the western margin of Qian'an Dome. **Back to Beijing in the afternoon.**

Route 2: High-pressure granulite and ultrahigh-temperature granulite in the Khondalite Belt and Trans-north China Orogen, NCC.

Field leaders: Jinghui Guo, Shujuan Jiao, Guangyu Huang, Jiahui Zhang, Jianrong Shi

Field Assistants: Jiahui Liu, Yang Qi, Mengxia Mao, Meiyun Huang

Key contact: Guangyu Huang, (+86) 18600849277 (WeChat); Mengxia Mao, (+86) 18810238223

Schedule:

October 13: (**Leaving from Xijiao Hotel at 8 am**) Stop 1: 1.91 Ga high pressure masic granulite, and its associated marble, argillaceous granulite in Xizhaojiayao area, Tianzhen. Stay overnight at Luxury Blue Horizon Hotel Berun in Wulanchabu.

October 14: (Leaving from Luxury Blue Horizon Hotel Berun at 8 am) Stop 2: Wanchenggou khondalite section; Stop 3: Tianpishan ultra-high temperature granulite (1.92 Ga); Stop 4: Anzishan leucogranite (1.95 Ga); Stop 5: Liangcheng S-type granite (1.94 Ga). Stay overnight at Atour hotel (Hohhot East Railway Station International Convention and Exhibition Center) in Hohhot.

October 15: (Leaving from Atour hotel at 8 am) Stop 6: Dongpo ultra-high temperature granulite (1.91-1.85 Ga). **Arrived at Xijiao hotel, Beijing around 7 pm**.

Route 3: Excursion on Units through Great Oxidation Event in Wutai Mountains, North China craton.

Field leaders: Peng Peng, Jianrong Li, Huichu Wang, Peisen Miao

Field Assistants: Xinping Wang, Binghe Li, Bisheng Xu, Xiangdong Su, Guangrui Shang

Key contacts: Binghe Li, (+86) 18965376588; Peng Peng, (+86)13671287251 (WeChat);

Schedule:

October 13 (**Leave for to Wutai at 8.30 am** via stops, stay overnight at Vienna Hotel in Wutai County): Stop 1, Taiping village, pillow lava, volcanic rocks and BIF of the Baizhiyan Formation of the Wutai Complex (greenstone belt, ca. 2.5 Ga); Stop 2, Kangjiagou village, BIF of the Baizhiyan Formation of the Wutai Complex (greenstone belt, ca. 2.5 Ga).

October 14 (stay overnight at Vienna Hotel in Wutai County): Stop 3, Yinjiahui village, overlooking the Gaofan Group unconformably sitting on the Wutai Complex (ca. 2.25 Ga?). Stop 4, Seven Trees (Gaofan village), Upper Zhangxianbu Formation and Lower Mohe Formation with nine tuff layers and one basalt layer (ca. 2.18 Ga); Stop 5, Gaofan village, Unconformity between the Gaofan Group (Mohe Formation) and the up Hutuo Supergroup (Sijizhuang Formation) (ca. 2.13 Ga); Stop 6, Maqiao village, conglomerate of the Sijizhuang Formation, Hutuo Supergroup (ca. 2.13 Ga); Stop 7 (Optional), Longba village, ca. 2.15 Ga volcanic pebble inside the Sijizhuang Formation of the Hutuo Supergroup (bottom); Stop 8 (Optional), Matoukou village, ca. 2.1 Ga volcanic layer inside the Qingshicun Formation of the Hutuo Supergroup (lower); Stop 9, Huilongdi village, stromatolite dolostone of the Hebiancun Formation, Hutuo Supergroup (middle) (ca. 2.06 Ga?); Stop 10, Hongshitou village, dolostone of the Daguanshan and Huaiyincun formations of the Hutuo Supergroup (middle-upper) and an overlook of Mesoproterozoic cover.

October 15 (from Wutai back Beijing, arrive Beijing at ~19:00 pm): Stop 11, Shizui village, ca. 2.7 Ga TTG gneisses; Stope 12, Bianjiawan village, one dyke of the ca. 1.73 Ga Beitai swarm. **Back to Beijing in the afternoon.**

Route 4: Middle and Upper Proterozoic outcrop in Jixian – Pinggu region.

Field leader: Shuichang Zhang

Key contact: Lianjie Tian, (+86) 15670888834; Rucheng Zhang, (+86) 17812085517

Schedule:

October 13: **Leave for field at 9.00 am from the hotel.** Archean sill (metamorphic rocks), Changzhougou Formation (fluvial and shallow sea clastic rocks), Chuanlinggou Formation (shallow sea clastic rocks), Tuanshanzi Formation (shallow sea carbonate rocks) and Dahongyu Formation (shallow sea clastic rocks and volcanic rocks) of the Changcheng System (1.8-1.6Ga) of the Mesoproterozoic.

October 14: The Mesoproterozoic Jixian System (1.6-1.4Ga), Gaoyuzhuang Formation (shallow sea carbonate rocks), Yangzhuang Formation (shallow sea carbonate rocks), Wumishan Formation (shallow sea carbonate rocks), Hongshuizhuang Formation (shallow sea clastic rocks), Tieling Formation (shallow sea carbonate rocks and clastic rocks), and Xiamaling Formation (shallow sea clastic rocks)..

October 15: The Luotuoling Formation (shallow sea clastic rocks) and Jingeryu Formation (shallow sea carbonate-clastic rocks) of the Qingbaikou Formation (1.0-0.8Ga) in the Upper Proterozoic, and the Lower Cambrian Fujunshan Formation (shallow sea carbonate rocks). **Back to Beijing in the afternoon.**

会议联系人

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